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SOUTHEASTERN AREA
SOUTHERN PINE BEETLE OUTBREAK STATUS

January 1975

PROCUREMENT SECTION
CURRENT SERIAL RECORDS
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U. S. Forest Service
SOUTHEASTERN AREA
State and Private Forestry
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SOUTHERN PINE BEETLE

FY 1975 Status Summary

Ownership	Infested Volume Salvaged		Funds Expended	Acreage Treated 1/ 3/
	MBF	MCF	$	acres
State & Private	92,690	28,449	1,019,880 2/	45,666
Federal	21,086	1,875	349,141	4,928
SA Total	113,776	30,324	1,369,021	50,594

1/ Estimated combined total acreage of salvaged infested, piled and burned, and chemically treated trees.

2/ Cooperative State projects financed 50% State - 50% Federal.

3/ Salvage treatment acreage calculated from salvage volumes at 800 cubic feet per acre; pile and burn and chemical treatment acreages are not included for all State and Private lands.

Outlook for the Remainder of FY 1975

Ownership	Total Acreage of Susceptible Host Type in SA 4/ 5/	Net Acreage of Host Type in Outbreak	Balance of Federal Funds Requested for Control Projects
State & Private	90,517,200	49,339,592	$ 717,878
Federal	9,690,100	2,908,797	$ 333,717
SA Total	100,207,300	52,248,389	$ 1,051,595

4/ Includes longleaf, slash, sand, and spruce pine acreages not previously included for some States.

5/ Includes susceptible host type acreage in Kentucky and Oklahoma not currently in the outbreak area.

States with Cooperative Suppression Projects - 9:

Alabama	Louisiana	South Carolina
Arkansas	Mississippi	Texas
Georgia	North Carolina	Virginia

Federal Administrative Units with Suppression Projects - 12:

National Forests in Alabama
Eglin Air Force Base, Florida
Chattahoochee - Oconee National Forests, Georgia
Kisatchie National Forest, Louisiana
National Forests in Mississippi
National Forests in North Carolina
Francis Marion - Sumter National Forests, South Carolina
Cherokee National Forest, Tennessee
Oak Ridge National Laboratory, Atomic Energy Commission, Tennessee
National Forests in Texas
George Washington National Forest, Virginia
Jefferson National Forest, Virginia

Summary

Outbreak intensity, expressed as infested counties, remained relatively static in the area from Alabama to Texas. Florida joined the infested Atlantic Coast States for the first time, contributing one county in this area north to Virginia which experienced a gain of 29 counties since last July. A total of 376 counties are now included within the outbreak boundary.

State and U.S. Forest Service entomologists forecast a continuation of aggressive beetle activity from Florida to Virginia and slight seasonal increases in the Alabama to Texas area.

APPENDIX

Appendix Table 1. Area of Susceptible Host Types in the Southeast by Ownership Class.[1/]
(thousand acres)

State	Ownership	Loblolly	Shortleaf	Pitch	Slash	Longleaf	Oak - Pine	Pond	Longleaf Slash	Shortleaf Loblolly	Virginia	Other Pines[2/]	Total
Alabama	Private	--	--	--	--	--	4,614.5	--	1,854.4	7,132.3	--	--	13,601.2
	Public	--	--	--	--	--	220.4	--	144.3	305.5	--	--	670.2
	Total	--	--	--	--	--	4,834.9	--	1,998.7	7,437.8	--	--	14,271.4
Arkansas	Private	--	--	--	--	--	2,466.6	--	--	2,982.5	--	--	5,449.1
	Public	--	--	--	--	--	573.0	--	--	685.5	--	--	1,258.5
	Total	--	--	--	--	--	3,039.6	--	--	3,668.0	--	--	6,707.6
Florida	Private	339.9	34.5	--	4,896.1	1,132.0	1,365.0	261.8	--	--	--	235	8,264.3
	Public	4.5	--	--	528.8	399.6	303.3	81.8	--	--	--	277.7	1,595.7
	Total	344.4	34.5	--	5,424.9	1,531.6	1,668.3	343.6	--	--	--	512.7	9,860.0
Georgia	Private	4,818.4	1,637.9	--	3,934.4	1,500.8	3,350.7	285.0	--	--	265.0	3.7	15,795.9
	Public	256.3	97.4	--	165.5	109.2	289.2	19.5	--	--	35.4	14.4	986.9
	Total	5,074.7	1,735.3	--	4,099.9	1,610.0	3,639.9	304.5	--	--	300.4	18.1	16,782.8
Kentucky	Private	--	--	--	--	--	443.5	--	--	--	--	326.2	769.7
	Public	--	--	--	--	--	113.9	--	--	--	--	41.5	155.4
	Total	--	--	--	--	--	557.4	--	--	--	--	367.7	925.1
Louisiana	Private	--	--	--	--	--	2,034.4	--	1,068.6	4,161.4	--	--	7,264.4
	Public	--	--	--	--	--	135.0	--	151.5	277.9	--	--	564.4
	Total	--	--	--	--	--	2,169.4	--	1,220.1	4,439.3	--	--	7,828.8
Mississippi	Private	--	--	--	--	--	2,969.8	--	1,051.6	3,718.8	--	--	7,740.2
	Public	--	--	--	--	--	402.2	--	283.8	523.8	--	--	1,209.8
	Total	--	--	--	--	--	3,372.0	--	1,335.4	4,242.6	--	--	8,950.0
North Carolina	Private	3,009.6	1,037.1	32.9	32.5	359.6	3,326.4	1,181.0	--	--	780.2	117.6	9,876.9
	Public	111.7	42.6	13.0	--	102.5	230.2	227.6	--	--	8.9	41.5	778.0
	Total	3,121.3	1,079.7	45.9	32.5	462.1	3,556.6	1,408.6	--	--	789.1	159.1	10,654.9
Oklahoma	Private	--	--	--	--	--	568.2	--	--	675.6	--	--	1,243.8
	Public	--	--	--	--	--	96.1	--	--	119.7	--	--	215.8
	Total	--	--	--	--	--	664.3	--	--	795.3	--	--	1,459.6
South Carolina	Private	2,588.9	772.9	4.6	501.6	388.4	1,970.8	344.7	--	--	151.7	8.7	6,732.3
	Public	327.6	101.2	--	72.6	118.9	154.0	40.7	--	--	10.9	--	825.9
	Total	2,916.5	874.1	4.6	574.2	507.3	2,124.8	385.4	--	--	162.6	8.7	7,558.2
Tennessee	Private	--	--	--	--	--	998.7	--	--	847.8	--	17	1,863.5
	Public	--	--	--	--	--	199.3	--	--	151.0	--	21.9	372.2
	Total	--	--	--	--	--	1,198.0	--	--	998.8	--	38.9	2,235.7
Texas	Private	--	--	--	--	--	2,241.9	--	347.9	4,315.0	--	--	6,904.8
	Public	--	--	--	--	--	64.2	--	10.6	593.7	--	--	668.5
	Total	--	--	--	--	--	2,306.1	--	358.5	4,908.7	--	--	7,573.3
Virginia	Private	1,077.6	323.8	32.4	--	--	2,326.8	2.6	--	--	1,174.4	72.7	5,010.3
	Public	38.3	15.2	31.2	--	--	210.5	--	--	--	71.3	21.4	387.9
	Total	1,115.9	339.0	63.6	--	--	2,537.3	2.6	--	--	1,245.7	94.1	5,398.2
Total	Private	11,834.4	3,806.2	69.9	9,364.6	3,380.8	28,677.3	2,075.1	4,322.5	23,833.4	2,371.3	780.9	90,516.4
	Public	738.4	256.4	44.2	766.9	730.2	2,991.3	369.6	590.2	2,657.1	126.5	418.4	9,689.2
	All Ownership	12,572.8	4,062.6	114.1	10,131.5	4,111.0	31,668.6	2,444.7	4,912.7	26,490.5	2,497.8	1,199.3	100,205.6

1/ Data extracted from U.S. Forest Service Resource Bulletins published by the Southern and Southeastern Forest Experiment Stations.
2/ Includes sand, spruce, table mountain, and white pines.

Table 2. SITUATION AND ACCOMPLISHMENT 1972 - 1974

State	Ownership	FY 1972 Gross Outbreak Area 1/	FY 1972 Federal Funds Expended $	FY 1972 Infested Volume Salvaged MBF	FY 1972 Infested Volume Salvaged MCF	FY 1973 Gross Outbreak Area 1/	FY 1973 Federal Funds Expended $	FY 1973 Infested Volume Salvaged MBF	FY 1973 Infested Volume Salvaged MCF	FY 1974 Gross Outbreak Area 1/	FY 1974 Federal Funds Expended $	FY 1974 Infested Volume Salvaged MBF	FY 1974 Infested Volume Salvaged MCF
Alabama	Private	---	---	---	---	15,000,000	500,000	66,722	20,377	15,000,000	475,000	28,843	12,670
	Federal	203,000	13,293	804	---	500,000	180,064	6,194	502	1,270,240	74,658	1,815	185
	Total	203,000	13,293	804	---	15,500,000	680,064	72,916	20,839	16,270,240	549,658	30,658	12,855
Arkansas	Private	---	---	---	---	645,000	22,952	879	188	1,336,000	21,285	341	160
	Federal	---	---	---	---	---	---	---	---	---	---	---	---
	Total	---	---	---	---	645,000	22,952	879	188	1,336,000	21,285	341	160
Georgia	Private	2,000,000	988	290	---	9,200,000	38,000	3,920	2,717	9,018,130	96,000	31,282	13,099
	Federal	296,690	10,960	4,767	---	700,000	51,396	6,431	628	1,336,132	50,124	3,937	315
	Total	2,296,690	11,948	5,057	---	9,900,000	89,396	10,351	3,345	10,354,262	146,124	35,219	13,414
Louisiana	Private	4,000,000	26,000	16,000	450	7,500,000	285,000	17,826	2,668	6,800,000	100,000	1,292	158
	Federal	561,000	60,630	6,550	---	600,000	59,894	2,742	411	1,017,287	32,000	820	33
	Total	4,561,000	86,630	22,550	450	8,100,000	344,894	20,568	3,079	7,817,287	132,000	2,112	191
Mississippi	Private	---	---	---	---	1,600,000	44,960	240	518	1,652,600	56,210	830	451
	Federal	188,615	17,168	3,000	---	200,000	50,034	2,513	10	373,497	36,618	3,351	0
	Total	188,615	17,168	3,000	---	1,800,000	94,994	2,753	528	2,026,097	92,828	4,181	451
North Carolina	Private	4,327,717	9,579	21,025	---	6,700,000	62,841	20,143	2,351	13,500,000	110,471	41,833	6,431
	Federal	631,220	21,110	900	---	600,000	41,448	2,012	110	2,752,430	33,000	2,459	705
	Total	4,958,937	30,689	21,925	---	7,300,000	104,289	22,155	2,461	16,252,430	143,471	44,292	7,136
South Carolina	Private	514,000	---	---	113	3,600,000	---	544	558	3,900,000	47,500	5,101	10,725
	Federal	481,479	22,070	2,767	---	1,300,000	55,183	2,902	814	1,474,444	35,250	3,120	377
	Total	995,479	22,070	2,767	113	4,900,000	55,183	3,446	1,372	5,249,444	82,750	8,221	11,102
Tennessee	Private	---	---	---	---	---	---	---	---	1,714,984	---	676	9
	Federal	50,000	15,700	579	---	80,000	22,350	341	69	338,136	27,068	620	121
	Total	50,000	15,700	579	---	80,000	22,350	341	69	2,053,120	27,068	1,296	130
Texas	Private	6,200,000	45,000	2,000	---	8,000,000	165,000	28,000	811	8,000,000	185,000	4,941	381
	Federal	80,000	4,800	300	---	700,000	56,924	4,847	185	1,716,967	140,835	17,004	643
	Total	6,280,000	49,800	2,300	---	8,700,000	221,924	32,847	996	9,716,967	325,835	21,945	1,024
Virginia	Private	---	---	---	---	4,600,000	---	6,000	2,700	6,889,600	9,500	11,326	4,090
	Federal	---	---	---	---	71,485	9,460	180	497	3,689	15,910	2,500	729
	Total	---	---	---	---	4,671,485	9,460	6,180	3,197	6,963,289	25,410	13,826	4,819
SA TOTALS	Private	17,041,717	$ 81,567	39,315	563	56,845,000	$1,118,753	144,274	32,848	67,686,314	$1,100,966	126,990	48,175
	Federal	2,492,004	$165,731	19,667	---	4,751,485	$ 526,753	28,162	3,226	10,352,822	$ 445,463	35,626	3,108
	Total	19,533,721	$247,298	58,982	563	61,596,485	$1,645,506	172,436	36,074	78,039,136	$1,546,429	162,616	51,283

1/ Total acreage of all counties within outbreak area. See Table 4.

Table 3. Southern Pine Beetle Status - FY 1975

State	Ownership	Federal Funds Requested	Federal Funds Received First Half FY 1975	Infested Volume Salvaged First Half FY 1975 MBF	Infested Volume Salvaged First Half FY 1975 MCF	Total Acreage of Host Type 1/	Net Acreage of Host Type in Current Outbreak 1/	Current Status and Course of Outbreak
Alabama	Private	500,000	150,000	5,878	5,608	13,601,200	9,633,200	Population levels are increasing in the north and decreasing in the south with most infestations appearing in the Piedmont and Northwest. Overall populations are down from the initial outbreak in 1972. There are 33 counties with epidemic populations and 16 counties with endemic populations.
	Federal	79,247	39,624	387	81	670,200	636,712	
	Total	579,247	189,624	6,265	5,689	14,271,400	10,269,912	
Arkansas	Private	25,190	25,190	425	167	5,449,100	938,900	Most infestations are occurring in the extreme southeastern part of the State. Levels have dropped off in Drew, Ashley, and Bradley Counties and increased in Union County.
	Federal	---	---	---	---	1,258,500	---	
	Total	25,190	25,190	425	167	6,707,600	938,900	
Florida	Private	---	---	---	---	8,265,100	119,900	The worst outbreak in 25 years was recently discovered in the Alaqua Creek area of Eglin Air Force Base. Evaluations indicate high population pressures in this area. Only one county, Walton, is involved.
	Federal	27,233 2/	---	---	---	1,595,700	39,900	
	Total	27,233	---	---	---	9,860,800	159,800	
Georgia	Private	215,000	107,500	10,402	3,168	15,795,900	7,768,000	Spots have increased in 42 counties, decreased in 32 and remained static in 5. The outbreak in the Chatham county area has spread to 3 additional counties since July. However, a 90% reduction in the number of spots has occurred.
	Federal	52,000	31,400	3,875	239	986,900	415,170	
	Total	267,000	138,900	14,277	3,407	16,782,800	8,183,170	
Louisiana	Private	35,000	---	1,119	127	7,264,400	5,300,300	Population levels overall have decreased and remain at endemic levels throughout the State. Some buildup is expected.
	Federal	48,400	24,200	2,909	167	564,400	322,400	
	Total	83,400	24,200	4,028	294	7,828,800	5,622,700	
Mississippi	Private	43,250	21,625	256	147	7,740,200	2,059,400	Populations remain static with decreased activity in the southwestern portions of the State. In northeastern areas, activity is spreading, and an increase in infestation levels is expected.
	Federal	61,824	32,637	1,781	---	1,209,800	250,242	
	Total	105,074	54,262	2,037	147	8,950,000	2,309,642	
North Carolina	Private	154,878	78,375	41,089	7,671	9,876,900	8,947,227	The outbreak continues to increase throughout the State with a high potential for heavy losses this summer. A current aerial survey is showing dramatic increases in the numbers and size of spots.
	Federal	27,885	27,885	1,117	304	778,000	158,818	
	Total	182,763	106,260	42,206	7,975	10,654,900	9,106,045	
South Carolina	Private	40,000	20,000	10,592	8,908	6,732,300	5,054,100	Losses are low to moderate throughout most of the outbreak area. Populations are extremely high in most coastal counties and the potential for many losses is high this spring and summer. Piedmont populations are static and unpredictable.
	Federal	72,105	17,500	1,900	373	826,800	292,554	
	Total	112,105	37,500	12,492	9,281	7,559,100	5,346,654	
Tennessee	Private	---	---	170	21	1,863,500	868,046	Scattered infestations are increasing rapidly in two newly infected counties, and enlarging in all counties in the current outbreak. Tennessee should experience its heaviest losses to date this summer.
	Federal	10,200	5,100	564	168	372,200	135,244	
	Total	10,200	5,100	734	189	2,235,700	1,003,290	
Texas	Private	200,000	100,000	9,360	556	6,904,800	5,788,463	Populations remain high and are expected to stay at about the same level next year. Activity is heaviest in the western half of the outbreak area but continues to spread to the north and northeast.
	Federal	247,849	153,295	8,533	537	668,500	556,537	
	Total	447,849	253,295	17,893	1,093	7,573,300	6,345,000	
Virginia	Private	14,500	7,250	13,399	2,076	5,010,300	2,862,056	Populations remain at high static levels in the central Piedmont with continued upswing in the Coastal Plain and northern Piedmont counties. Woodpecker predation is higher this winter. Overwintering beetle populations remain high due to the mild winter.
	Federal	35,000	17,500	20	6	387,900	101,220	
	Total	49,500	24,750	13,419	2,082	5,398,200	2,963,276	
SA Totals	Private	1,227,818	509,940	92,690	28,449	88,503,700	49,339,592	
	Federal	661,743	349,141	21,086	1,875	9,318,900	2,908,797	
	Total	1,889,561	859,081	113,776	30,324	97,822,600	52,248,389	

1/ Figures include longleaf, slash, sand, and spruce pine acreages not previously included. Addition reflects the significant increase of beetle infestations of these pine species previously thought to be of minor importance as hosts.

2/ Anticipated request; proposal not received by February 28, 1975.

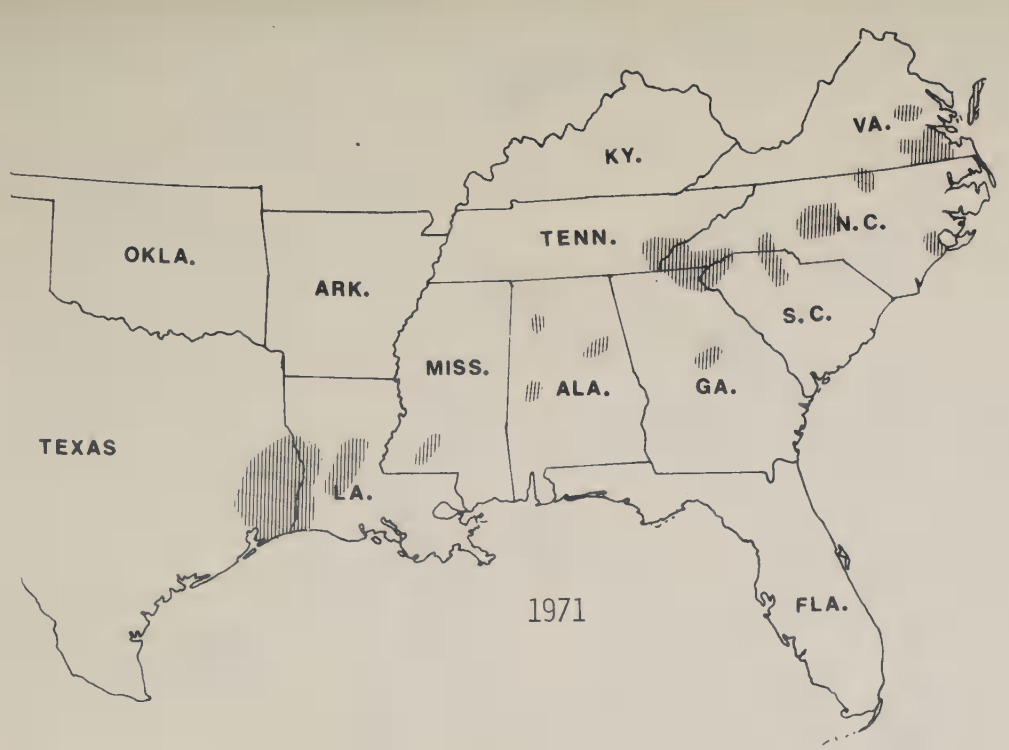
Table 4. Southern Pine Beetle Outbreak Intensity, January 1975.

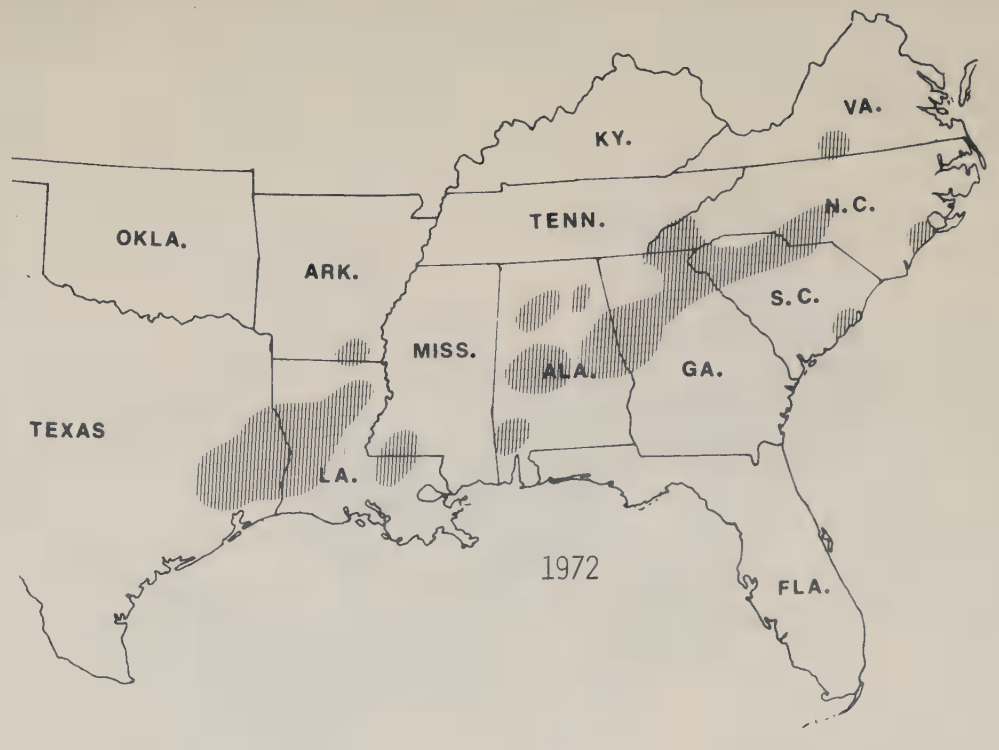
State	Total Number of Counties in State	Number of Counties w/Susceptible Host Type in State 1/	Number of Infested Counties in Current Outbreak			
			Jul 73	Jan 74	Jul 74	Jan 75
Alabama	67	67	53	53	50	49
Arkansas	75	47	4	2	4	4
Florida	67	67	0	0	0	1
Georgia	159	158	58	56	70	79
Louisiana	64	38	31	31	21	22
Mississippi	82	69	17	18	14	14
North Carolina	100	100	60	71	81	89
South Carolina	46	46	22	22	26	28
Tennessee	95	55	10	13	13	15
Texas	254	44 2/	22	22	26	26
Virginia	98	87	26	27	42	49
SA Total	1,107	778	303	315	347	376

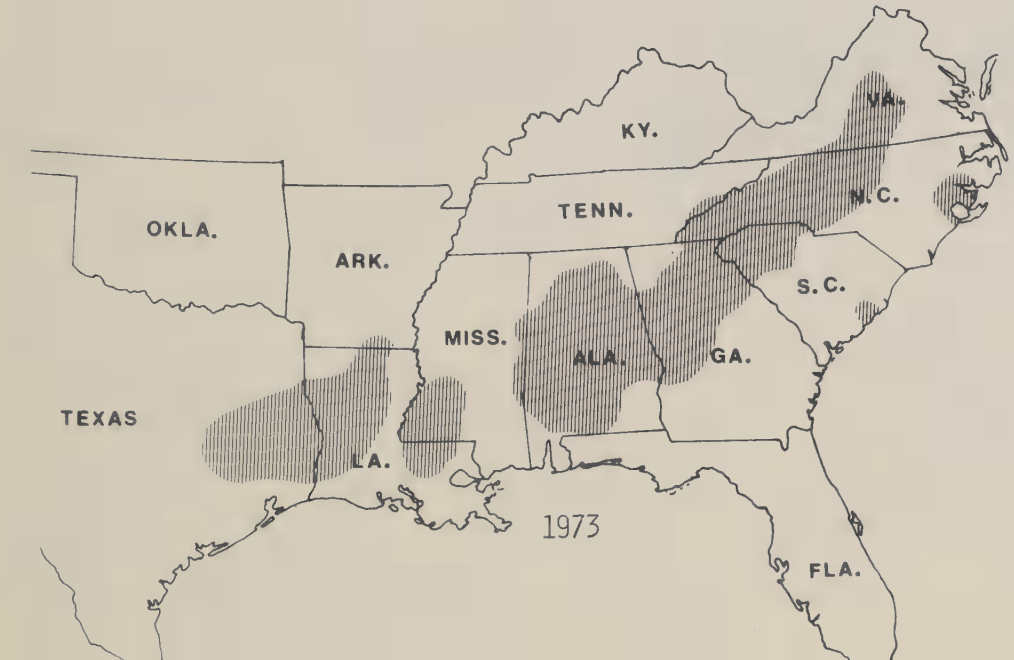
1/ Susceptible host types include loblolly, shortleaf, pitch, pond, Virginia, table mountain, longleaf, slash, sand, spruce, and white pines.

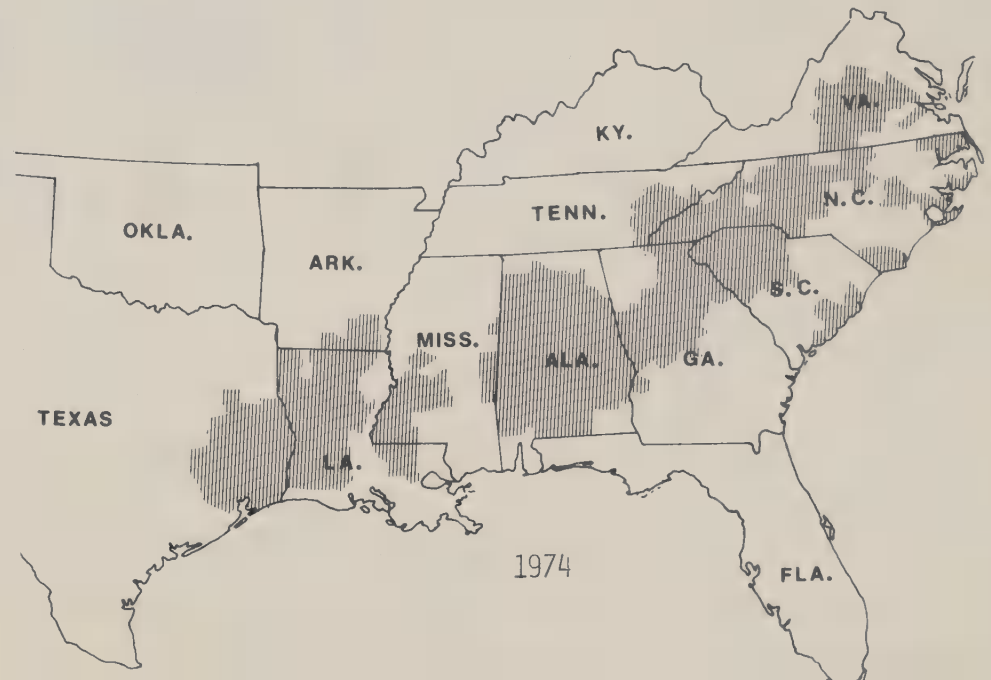
2/ East Texas counties only.

FIGURE 1 CHRONOLOGICAL DEVELOPMENT OF THE SOUTHERN PINE BEETLE OUTBREAK FY 1971 - FY 1974









SOUTHEASTERN AREA

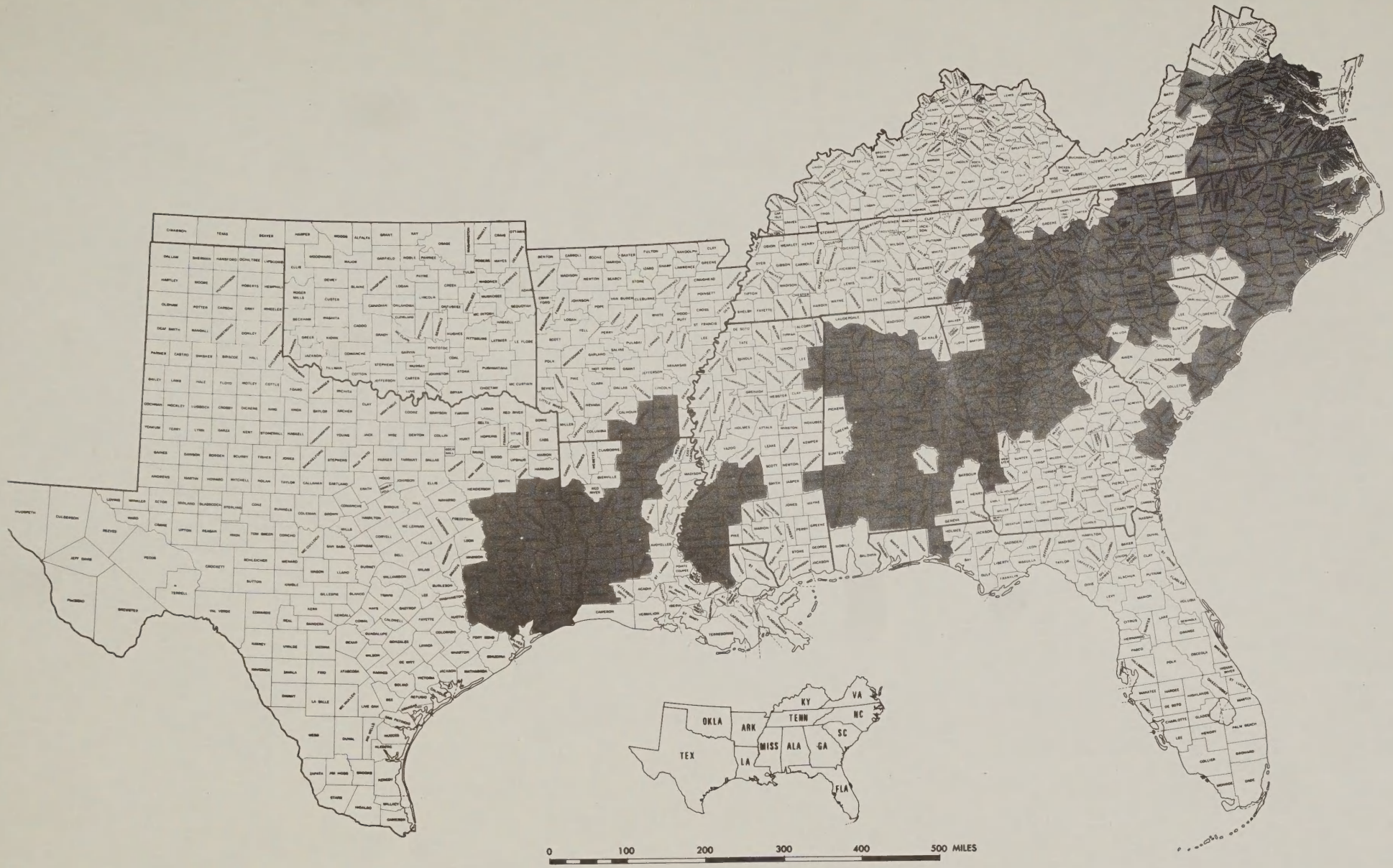


FIGURE 2 FY 1975 LOCATION OF SOUTHERN PINE BEETLE OUTBREAK, SOUTHEASTERN AREA